

WHAT IS CLAIMED IS:

1. A subsystem logics partitioning and managing apparatus comprising:

means for recognizing logical resources and physical resources that constitute a subsystem;

a partition definition table in which said logical and physical resources in said subsystem are assigned for each user at an interface level at which a storage configuration can be referenced by a storage management program;

an account table in which a partition-specific account is set for each user defined in said partition definition table;

means for receiving a user account transmitted from an information processing unit and collating the received user account to said account table to thereby recognize a partition corresponding to said user; and

means for outputting logical resources and physical resources that are contained in said recognized partition to an output interface as a resource configuration in said subsystem.

2. The subsystem logics partitioning and managing apparatus according to claim 1, comprising means for outputting, at a GUI level, logical resources and physical resources that are contained in said partition to an output interface as a resource configuration in said subsystem.

3. The subsystem logics partitioning and managing apparatus according to claim 1, comprising means for accepting from the information processing unit a request for changing a configuration of said output logical resources or physical resources and changing said configuration of said logical resources or said physical resources in said partition definition table.

4. The subsystem logics partitioning and managing apparatus according to claim 1, wherein resources to be assigned for each user in said partition definition table include a port, a logical unit, a logical device indicative of a logical storage region assigned to said logical unit, and a disk unit group having a disk unit and a parity bit-use disk unit which stores data recovery information of said disk unit.

5. The subsystem logics partitioning and managing apparatus according to claim 1, comprising means for collating a requested specification of a logical unit accepted from an information processing unit to an assignment policy for said logical device and said disk unit group that are defined for each user, to perform assignment of a logical device and a disk unit group in accordance with said policy, thereby generating a logical unit.

6. The subsystem logics partitioning and managing apparatus according to claim 5, wherein said

assignment policy comprises:

a first policy for selecting said logical device from a disk unit group to which no other partitions are assigned and in which no such disk unit group is present that control on input/output operations to disk units is conducted via the same adapter, to generate a logical unit;

a second policy for selecting said logical device from a disk unit group to which no other partitions are assigned, to generate a logical unit; and

a third policy for selecting said logical device from a disk unit group to which no other partitions that correspond to said first and second policies are assigned, to generate a logical unit.

7. The subsystem logics partitioning and managing apparatus according to claim 4, wherein resources to be assigned for each user include a cache.

8. A method for partitioning and managing logics in a subsystem which comprises a partition definition table in which logical resources and physical resources in said subsystem are assigned for each user at an interface level at which a computer can reference a storage configuration by using a storage management program and an account table in which an account is set for each user-specific partition that is defined in said partition definition table, said method comprising the steps of:

recognizing logical and physical resources that constitute said subsystem;

receiving an account of a user transmitted from an information processing unit and checking collating the received user account to said account table, to recognize a partition corresponding to said user; and

outputting logical and physical resources contained in said recognized partition to an output interface as a resource configuration in said subsystem.

9. A subsystem logics partitioning and managing program for causing a computer capable of utilizing a partition definition table in which logical resources and physical resources in a subsystem are assigned for each user at an interface level at which a storage configuration can be referenced by using a storage management program and an account table in which an account is set for each user-specific partition that is defined in said partition definition table, to perform a method for partitioning and managing logics of said subsystem, said method comprising the steps of:

recognizing logical and physical resources that constitute said subsystem;

receiving an account of a user transmitted from an information processing unit and collating the received user account to said account table, to recognize a partition corresponding to said user; and

outputting logical and physical resources

- 28 -

contained in said recognized partition to an output
interface as a resource configuration in said subsystem.